

We claim:

1. A fuel composition for colored flames comprising 0.1~6 %
by weight of a coloring agent, 75~90% by weight of fuel or
5 fuel mixture comprising alcohol and/or amine, 2~20% of
additive comprising ester bond and 2~10 % by weight of a
fire power enhancer having at least 3 carbons.
2. A fuel composition for colored flames according to claim
10 1, wherein the fuel is selected from methanol, ethanol or
propanol.
3. A fuel composition for colored flames according to claim
1, wherein the fuel mixture comprises 45~55% by weight of
15 methanol and 25 to 40% by weight of ethanol.
4. A fuel composition for colored flames according to claim
3, wherein the fuel mixture further comprises 2 to 10% by
weight of propanol.
- 20 5. A fuel composition for colored flames according to any
one of claims 1 to 4, wherein the fuel mixture comprises
0.1~30% by weight of amine, and 70~99.9% by weight of
alcohol.

6. A fuel composition for colored flames according to any one of claims 1 to 4, wherein the fire power enhancer comprises butanol, hexane, hexanol or acetone.

5

7. A device for colored flame comprising:

a fuel reservoir(4) where a preliminary vent valve (16), a pressure gauge (20), a fuel inlet (22), a (safety) valve (24) and a shut off valve(26) are arranged at the upper side, a drain valve(28) and a manual shut-off valve are arranged at the lower side and a number of fuel tanks according to the number of colors to embody are arranged;

a pressure feeding portion (6) having a main pressure shut-off valve(38) controlled and arranged in line (L1) to feed N₂ or air in a delivery gas tank(34) by a regulator(36) to form pressure into the above fuel tank(18);

a pressure regulating portion (8) having a pressure regulating valve (40) controlled and arranged in line(L1) between the main pressure shut-off valve(6) and the shut-off valve (26) of the fuel tank (18) in the fuel reservoir(4);

an injection combustion portion (10) having a injection nozzle (46) comprising a number of solenoid valves according to the number of colors to embody and branch connected to line (L3) of a manual shut off valve (30) in

said fuel reservoir(4) to control amount of fuel and an ignition plug (44) for flame at one side of the injection nozzle (46);

5 a control device (12) electronically connected to control the above main pressure shut off valve (38), the pressure control valve (4), the solenoid valve (42) and the ignition plug (44) according to pre-established data.